

29.01 INTRODUCTION

29.01.010 Forward

Applicability

The standards contained herein regulate all transportation improvements within the public rights-of-way, and all private work to be dedicated to the public, either as right-of-way or as an easement, and to site circulation. The standards are to be treated as law and applied to all development as defined by the Zoning and Development Code (Title 21 of the Grand Junction Municipal Code). To that extent they are imposed to provide for coordinated, modern development with safe and efficient transportation facilities for the benefit of and to serve and protect users. The standards apply within the City of Grand Junction Urban Development Boundary, which includes all areas within the city limits and portions of unincorporated Mesa County. The Urban Development Boundary can be seen on the Urban Development Boundary layer on the [Grand Junction GIS Development Map](#).

All facilities and improvements within the public rights-of-way shall be designed by or under the direct supervision of a registered professional engineer licensed to practice in the State of Colorado. All drawings, designs, sections, detail and supporting data submitted to the City or County for approval must bear the engineer's seal and signature and a statement that:

This design complies with Grand Junction Municipal Code Title 29, the current Transportation Engineering Design Standards, dated mmmm dd, yyyy.

All designs submitted shall be in accordance with the latest edition of the TEDS manual.

Some projects financed wholly or in part with state or federal funds are subject to the standards prescribed by agencies other than the City and County. Such standards may be more or less restrictive than the City of Grand Junction and Mesa County standards. The City and County require that the more restrictive standards shall be met.

The TEDS addresses frequent construction and development problems and questions. The standards by adoption and application ensure consistent transportation engineering design practices for new development and redevelopment of land within the City of Grand Junction Urban Development Boundary. Some of the material contained in this document has been drawn from standards of other cities and states and nationally established texts and publications.

The TEDS applies to all new developments except in special cases as noted, limited and defined herein or defined in the Zoning and Development Code. Infill development within the City of Grand Junction Urban Development Boundary may be constrained by existing improvements. If such a condition exists, where existing infrastructure has been built but does not meet current TEDS, the Director may allow the existing infrastructure to remain if it is adequate to serve the existing and proposed traffic (vehicle, ped, bicycle) and in good working condition. If it is in poor condition or inadequate, all requirements shall be constructed unless an affirmative waiver of TEDS is obtained in accordance with Chapter 29.64.010.

On Colorado highways within the Urban Development Boundary, the Colorado Department of Transportation (CDOT) Roadway Design Manual, the State Highway Access Code, and any corridor-specific access control plan shall apply but only if more restrictive than TEDS.

If a proposed development within the City of Grand Junction Urban Development Boundary requires access to a County roadway or work will be performed in the County right-of-way, approval from the County must first be obtained.

29.01.020 Companion Documents and Software Recommended For Use with the Transportation Engineering Design Standards

Publications

City:

- City of Grand Junction Municipal Code, Title 21 - *Zoning & Development Code* [[GJMC Title 21](#)]
- City of Grand Junction *Standard Contract Documents for Capital Improvements Construction* [[Std Contract Docs](#)]
- City of Grand Junction *Circulation Plan* [[GJMC Title 31.08](#)]
- City of Grand Junction *Pedestrian & Bicycle Plan* [[Ped/Bike Plan](#)]
- City of Grand Junction *Pedestrian Crossing Treatment Installation Guidelines* [[Crosswalk Guide](#)]
- City of Grand Junction *Fire Department Access* [[GJ Fire Access](#)]

County:

- Mesa County *Design Standards* [[County Standards](#)]
- Mesa County *Transit Design Standards and Guidelines*

State:

- Colorado Department of Transportation *Roadway Design Guide* [[CDOT Road Design](#)]
- Colorado Department of Transportation *State Highway Access Code* [[CDOT Access Code](#)]
- Colorado Department of Transportation *Pedestrian Crossing Installation Guide* [[CDOT Ped Crossing Guide](#)]

Federal:

- Transportation Research Board *Highway Capacity Manual*
- Transportation Research Board NCHRP *Guide for Roundabouts* [[TRB Roundabouts](#)]
- Federal Highway Administration *Manual on Uniform Traffic Control Devices* [[MUTCD](#)]
- Federal Highway Administration *Separated Bicycle Lane Planning and Design Guide* [[FHWA Separated Bike Lane Guide](#)]

Professional Organizations:

- Institute of Transportation Engineers *Trip Generation Guide* [[ITE Trip Gen Guide](#)]

- American Association of State Highway and Transportation Officials *A Policy on Geometric Design of Highways and Streets*
- American Association of State Highway and Transportation Officials *Guide for Bicycle Facilities*
- American Association of State Highway and Transportation Officials *Roadside Design Guide*
- American Association of State Highway and Transportation Officials *A Guide for Erecting Mailboxes on Highways*
- National Association of City Transportation Officials *Urban Bikeway Design Guide* [[NACTO Bikeway Design Guide](#)]
- National Association of City Transportation Officials *Designing for All Ages and Abilities* [[NACTO All Ages Design Guide](#)]
- National Association of City Transportation Officials *Don't Give Up at the Intersection* [[NACTO Don't Give Up At Intersection](#)]
- Colorado Asphalt Pavement Association *Guideline for the Design and Use of Asphalt Pavements for Colorado* [[CO Pavement Guidelines](#)]

Software

- *Synchro* or other software as approved by the city transportation engineer that aligns with methodologies from the latest *Highway Capacity Manual* (Signal Timing and Analysis)
- *SIDRA* or other software as approved by the city transportation engineer (Roundabout Analysis)
- AASHTO93 and M-E Design (Asphalt Pavement Design)
- *WinPAS* from American Concrete Pavement Association